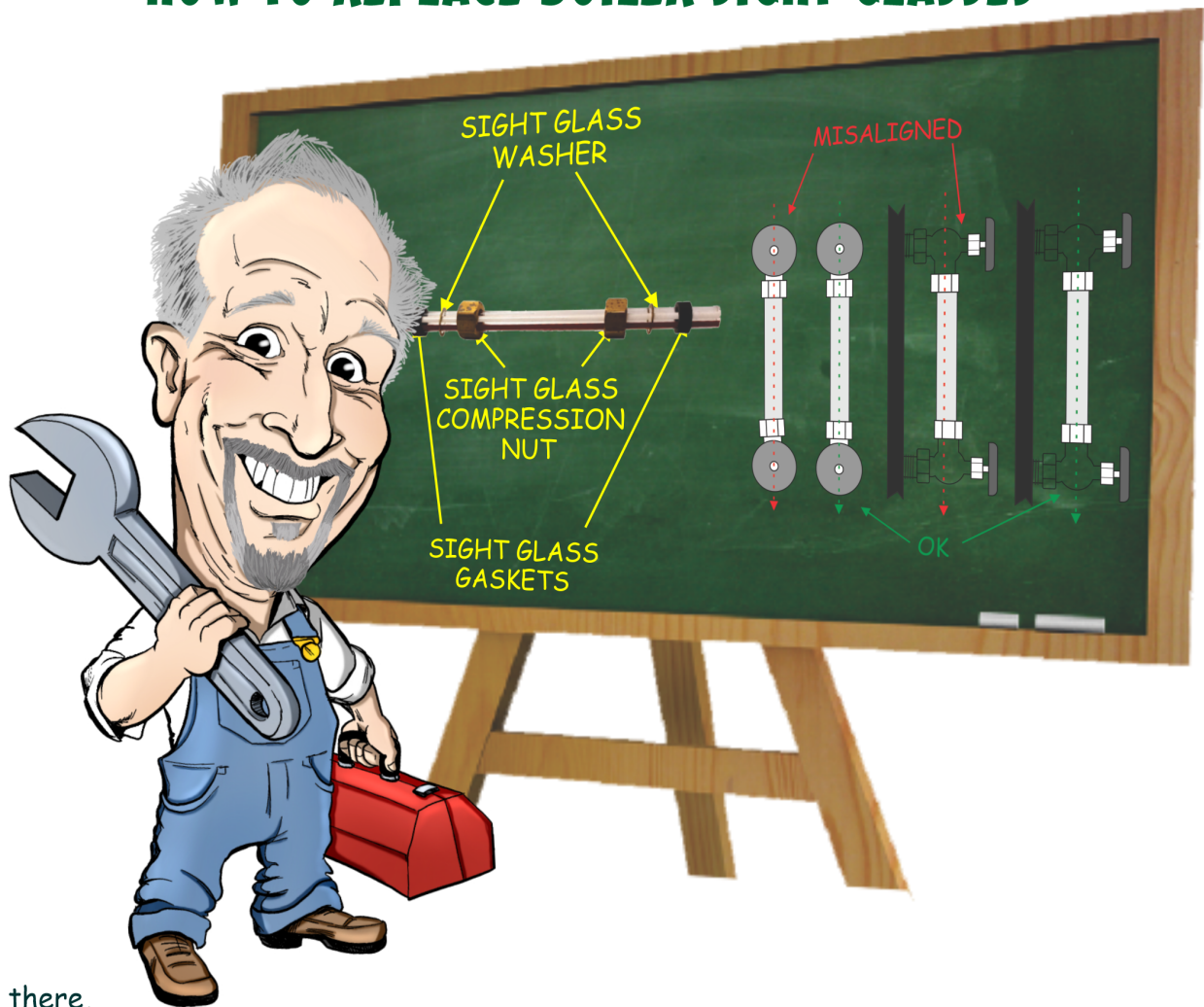


## HERE'S YOUR COMPLIMENTARY DIY BULLETIN FOR OCTOBER HOW TO REPLACE BOILER SIGHT GLASSES



Hello there,

One of the simplest devices found in your boiler room is the boiler sight glass. Its purpose is to allow you to view the water level in the boiler's pressure vessel and also give you some insight into the condition of the boiler water. Additionally, it acts as a convenient outlet for obtaining water for quality testing. Unfortunately, due to the passage of time and improper installation of previous sight glasses, many are rendered unusable. However, with the following set of instructions designed for the DIY mechanic, you can easily install a new sight glass in about half an hour.

We are here to assist you in keeping your equipment in top condition!

Best regards,

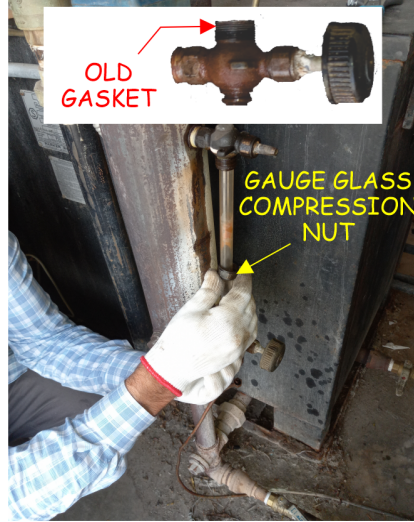
Bruce Grossman

# BOILER SIGHT GLASS FIXTURE MAINTENANCE



## STEP 1:

The night before the scheduled repair blow down the boiler completely. Next day generously spray down the water column area with penetrating oil. Be certain there is no steam pressure. **WEAR GLOVES AS WELL AS FACE AND EYE PROTECTION.**



## STEP 2:

Unscrew the gauge glass compression nuts. Push the sight glass upward until the lower end of sight glass clears the lower gauge glass fixture. Remove the old sight glass, if necessary break it. **If you're only changing the sight glass perform STEPS 2, 7-11 and be sure to remove the old gasket.**



## STEP 3:

Undo any connections to the sight glass fixtures. Unscrew the old sight glass fixtures and clean out the threads in the water column ports.



## STEP 4:

Dress all the thread surfaces using several turns of Teflon tape. Don't be stingy using the tape, once your through with assembling, it's a real pain to remedy any leaks.



## STEP 5:

Screw in the lower sight glass fixture. Screw in the sight glass drain valve being sure the handle is accessible. Reconnect the drain line if one is present.

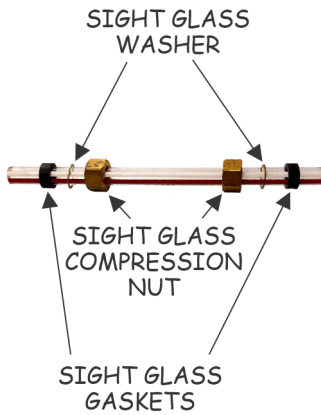


## STEP 6:

Screw in the upper sight glass fixture being sure both the top and bottom fixture are screwed into the water column to an equal depth so the sight glass will be aligned vertically front to back and side to side (see STEP 9).



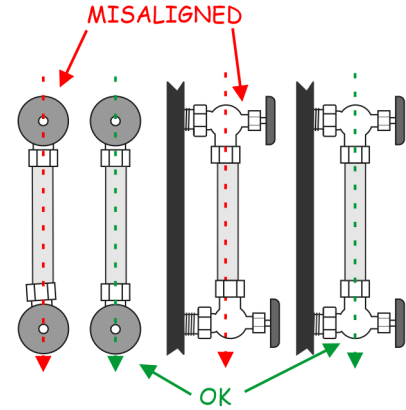
# BOILER SIGHT GLASS FIXTURE MAINTENANCE



**STEP 7:**  
Assemble the sealing components on the sight glass as shown.



**STEP 8:**  
Insert the sight glass assembly into the upper fixture then slide it down into the lower fixture until it bottoms or is centered



THE ALIGNMENT OF THE UPPER AND LOWER FIXTURES IS IMPORTANT PAY ATTENTION TO

**STEP 9:**  
Tighten the compression nut a bit more than finger tight and eyeball the vertical alignments as shown. If the fixtures are off in alignment the



**STEP 10:**  
If you are installing a red line sight glass be sure to rotate the glass so the level will be visible to an observer. Position the glass and while holding it, alternately tighten first the top then bottom compression nut. It's difficult to describe how tight to torque them down but almost very tight is my best explanation. **Although we don't recommend it,** they can easily be tightened further after



**STEP 11:**  
Turn on the boiler, when it comes up to pressure check for leaks. If there are leaks cautiously tighten the compression nut about 1/4 turn at a time until the leak stops. **(IT MUST BE DONE CAUTIOUSLY AND WHILE WEARING GLOVES AS WELL AS FACE AND EYE PROTECTION. BE SURE YOU HAVE A CLEAR EXIT PATH FROM THE BOILER**

# BOILER SIGHT GLASS FIXTURE MAINTENANCE



**STEP 13:**  
Turn the fixture shut off valve handle counter clockwise until it's all the way out, then turn clockwise 1/2 turn.



**STEP 14:**  
Tighten the gland nut on the fixture shut off valve by turning the nut clockwise until it feels medium tight. Fire up the boiler and check for leaks.

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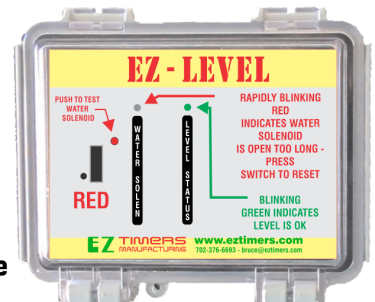
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